

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-10-N-TWBWG-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-10-N-TWBWG-UNV-L840-CD1-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

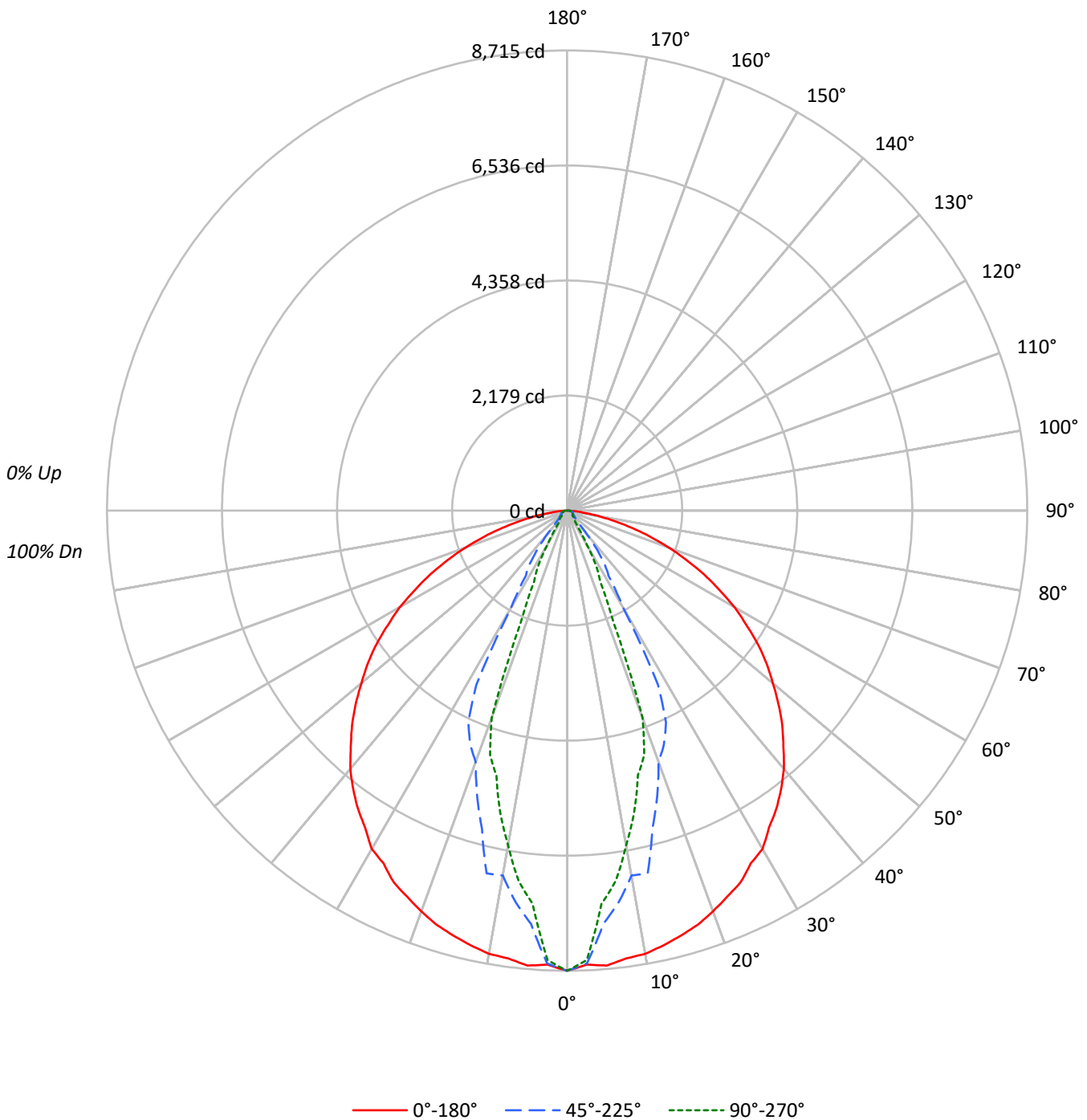
Lumens per Lamp: N/A  
Luminaire Lumens: 8652.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 67  
Input Voltage (V):  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12791	12791	12791
5°	12729	11494	10918
10°	12675	10304	9421
15°	12619	9267	7656
20°	12558	7672	6272
25°	12513	6897	2281
30°	12453	3438	1189
35°	12265	2081	453
40°	12113	1041	395
45°	11817	451	292
50°	11442	383	266
55°	11079	320	279
60°	10519	333	272
65°	9666	361	278
70°	8494	378	288
75°	6865	418	317
80°	4723	496	351
85°	2658	596	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	744.4	8.6
10°-20°	1804.6	20.9
20°-30°	1965.9	22.7
30°-40°	1512.3	17.5
40°-50°	1117.4	12.9
50°-60°	703.0	8.1
60°-70°	460.4	5.3
70°-80°	257.7	3.0
80°-90°	86.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4514.9	52.2
0°-40°	6027.2	69.7
0°-60°	7847.6	90.7
0°-90°	8652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8715	8715	8715	8715	8715	
5°	8649	8581	7860	7396	7480	819
15°	8332	7244	6239	5416	5186	2353
25°	7771	5807	4430	1973	1480	3573
35°	6905	4279	1231	392	272	4318
45°	5764	2279	236	199	156	4439
55°	4407	584	140	148	126	3926
65°	2858	145	123	110	99	2818
75°	1267	109	97	87	79	1359
85°	180	69	70	67	59	230
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8714.6	8714.6	8714.6	8714.6	8714.6
2.5°	8607.2	8610.1	8588.6	8545.7	8518.5
5°	8648.7	8581.4	7859.9	7396.0	7480.5
7.5°	8554.2	8206.3	7480.5	7134.0	7066.7
10°	8522.7	7630.8	7018.1	6900.7	6442.5
12.5°	8432.5	7281.5	7039.5	6299.4	5859.8
15°	8332.3	7244.3	6239.2	5416.0	5185.5
17.5°	8223.5	6917.8	5669.4	4963.6	4853.4
20°	8076.1	6708.8	5065.3	4562.7	4174.8
22.5°	7917.1	6608.6	4791.8	2973.6	2305.0
25°	7771.1	5806.9	4429.6	1972.8	1480.3
27.5°	7530.6	5742.4	3720.9	1444.6	1221.2
30°	7400.3	5146.9	2128.9	1086.6	745.9
32.5°	7118.3	4680.1	1457.4	660.0	445.3
35°	6905.0	4279.3	1231.2	392.3	272.0
37.5°	6654.4	4014.4	920.6	269.2	236.2
40°	6388.1	3702.3	582.7	240.5	224.8
42.5°	6064.6	3334.4	345.0	226.2	193.3
45°	5763.9	2279.2	236.2	199.0	156.1
47.5°	5431.8	1554.8	201.9	168.9	134.6
50°	5085.3	1016.5	184.7	150.3	131.7
52.5°	4760.3	833.2	160.3	150.3	131.7
55°	4406.7	584.1	140.3	147.5	126.0
57.5°	4018.7	363.6	131.7	143.2	121.7
60°	3660.8	214.8	130.3	138.9	110.2
62.5°	3242.7	163.2	127.4	123.1	104.5
65°	2857.6	144.6	123.1	110.2	98.8
67.5°	2443.9	130.3	114.5	105.9	95.9
70°	2047.3	117.4	108.8	98.8	87.3
72.5°	1649.3	113.1	103.1	93.1	83.0
75°	1267.0	108.8	97.4	87.3	78.7
77.5°	922.0	101.6	91.6	84.5	74.4
80°	598.4	93.1	87.3	78.7	67.3
82.5°	333.6	84.5	80.2	73.0	64.4
85°	180.4	68.7	70.2	67.3	58.7
87.5°	32.9	48.7	60.1	58.7	51.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)